"Inninrible" Vacuum-Cleaners

Descriptive

Both Portable and Stationary Models

W. & J. SLOANE

FIFTH AVENUE & 47TH ST., NEW YORK
TELEPHONE: 7700 MURRAY HILL

WASHINGTON, D.C., 1412-1414 H ST., N.W.



"Invincible"

10 East 41st St. San Mateo, Cal. 24 East 67th St.

109 East 65th St. 645 Fifth Ave.

1082 Fifth Ave. Lakewood, N. J. Yacht "Atalanta" 833 Fifth Ave.

817 Fifth Ave. 117 8th Ave. Bklyn. Morristown, N. J.

43 West 56th St. Cold Spring, L. I. 297 Madison Ave.

104 East 65th St. 157 East 71st St. 20 West 49th St.

812 Fifth Avenue

27 East 39th St.

Glen Cove, L. I.

101 Park Ave.

31 Nassau St.

60 Beaver St. Brooklyn, N. Y. Brooklyn, N. Y.

530 Fifth Ave.

309 Broadway

55 Liberty St.

26 Beaver St.

29 West 38th St.

46th St. & Lex. Ave. 35 Nassau St.

123 William St. Brooklyn, N. Y. 39th St. & 5th Ave.

712 Fifth Ave. 35th St. & 5th Ave. 438 Fifth Ave.

22d St. & Broadway

715 Fifth Ave.

681 Fifth Ave. 35 Cortlandt St.

43 W. 23d St.

16 Prospect Park W.,

Brooklyn

Islio, L. I.

Mahwah, N. J.

Lenox, Mass.

STATIONARY OR PORTABLE VACUUM-CLEANERS HAVE BEEN SOLD TO THE FOLLOWING

RESIDENCES

989 Fifth Ave. NICHOLAS F. BRADY 28 East 64th St. IRVING T. BUSH Andrew Carnegie 2 East 91st St. Andrew Carnegie (garage) 55 East 90th St. Skibo Castle, Scotland

Andrew Carnegie A. S. Cochran CHARLES T. CROCKER R. FULTON CUTTING JAMES MAY DUANE W. B. OSGOOD FIELD W. B. OSGCOD FIELD JAY GOULD GEORGE GOULD

George Gould WILLIAM GUGGENHEIM H. O. HAVEMEYER, JR. RAYMOND HOAGLAND ALVIN E. IVIE MRS. WM. P. JENKS WALTER JENNINGS Walter Jennings MRS. MORRIS K. JESUP MRS. HOWARD LAPSLEY

Col. John McAnerney George G. McMurtry JOSEPH MILBANK J. Pierpont Morgan Schuyler L. Parsons E. A. NUTTING

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OFFICE BUILDINGS and STORES 18th St. & 4th Ave.

AMERICAN WOOLEN CO. ARCHITECTS' BUILDING BANK OF COMMERCE BLDG. COTTON EXCHANGE BLDG. B'KLYN EDISON Co.'s BLDG. Franklin Trust Co. Bldg. FIFTH AVE. BANK BLDG. LANGDON BUILDING LIBERTY TOWER BLDG. 55 Liberty St. MUTUAL LIFE INS. Co. BLDG. 45 Cedar St. GRAND CENTRAL PALACE FOSTAL LIFE INS. Co. BLDG. SEAMAN'S CHURCH INST. BLDG.25 South St. STOCK QUOTATION TEL. BLDG. SPRINGS BUILDING Underwriters Building PRATT INSTITUTE A. A. VANTINE & Co. L. ALAVOINE & Co. B. Altman & Co. AITKEN, SON & CO. WM. BAUMGARTEN & Co. Brooks Brothers E. P. DUTTON & Co. Peter Henderson & Co. Geo, C. Flint & Co. W. & J. Sloane

575 Fifth Ave. 79 Leonard St. Deering, Milliken & Co. CHURCHES and HOSPITALS

CATHEDRAL, St. JOHN, DIVINE 110th St. & Amst. Av. St. Patrick's Cathedral 50th St. & 5th Ave. TRINITY CHURCH St. Agnes' Chapel PAULIST'S FATHERS' CHURCH BRICK PRESB. CHURCH Mad. Av. Press. Church Mad. Sq. Press. Church St. Mark's Church
Manhattan State Hospital
Kings Park State Hospital
Woman's Hospital
Woman's Hospital

2411 St. & Mad. Ave.
Wards Island. N. Y.
Kings Park. N. Y.
141 W. 109th St. ROCKEFELLER INSTITUTE MOUNT SINAI HOSPITAL

50th St. & 5th Ave. Wall St. & Broadway 121 W. 91st St. 59th St. & Col. Ave. 5th Ave. & 37th St. 73d St. & Mad. Ave. 24th St. & Mad. Ave. 66th St. & Ave. A. 100th St. & 5th Ave.

OELRICHS & CO. Southern Pacific Co. UNITED FRUIT Co. Defender Mfg. Co. Dominick & Haff AMERICAN THREAD CO. SUTRO BROS. BRAID CO.

Let us send you a list of those in your locality

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MRS. T. F. RYAN
WILLIAM SALAMON
WM. JAY SCHIEFFELIN
LORENZO SEMPLE
HIRAM W. SIBLEY
HIRAM W. SIBLEY
WW. D. SLOANE WM. D. SLOANE THOMAS SMIDT JAMES SPEYER JAMES SPEYER Mrs. Cornelius Vanderbilt

WM. K. VANDERBILT PAUL M. WARBURG HARRY PAYNE WHITNEY ORME WILSON, IR.

West Park, N. Y. 52 West 40th St. 224 Madison Ave. Gt. Barrington, Mass. Port Chester, N. Y. Port Chester, N. Y. Port Chester, N. Y. 922 Fifth Aye. Glen Cove, L. I. 11 East 61st St. Glen Cove, L. I. Glen Cove, L. I. 451 Madison Ave. 4 West 54th St. 858 Fifth Ave. Suffern, N. Y. 1020 Fifth Ave. 5 East 66th St. Mt. Kisco, N. Y. 105 East 71st St. Rochester, N. 2 West 52d St. 134-5 East 39th St. 87th St. & 5th Ave. Scarborough, N. Y. J. W. 57th St. 660 Fifth Ave. Hartsdale, N. Y. Westbury, L. I.

11 East 64th St.

CLUBS and HOTELS

7 West 43d St. 122 Madison Ave. CENTURY CLUB COLONY CLUB Union League Club 1 East 39th St. 1 West 54th St. UNIVERSITY CLUB METROPOLITAN CLUB 1 East 60th St. RACQUET & TENNIS CLUB N. Y. ATHLETIC CLUB 27 West 43d St. 58 W. 59th St. 99 Madison Ave. Woman's University Tuxedo Club Tuxedo Park, N. Y. PIPING ROCK CLUB MERCHANTS' CLUB Locust Valley, L. I. 346 Broadway 73d St. & Broadway Ansonia Hotel Times Square 50th St. & 5th Ave. 42d St. & Mad. Ave. 2 East 45th St. HOTEL ASTOR BUCKINGHAM HOTEL MANHATTAN HOTEL LORRAINE HOTEL 41st St. & Park Ave. MURRAY HILL HOTEL PRINCE GEORGE HOTEL 14 East 28th St. PARK AVENUE HOTEL 33d St. & Park Ave. 42d St. & Park Ave. 222 West 23d St. GRAND UNION HOTEL GRAND UNION TOTAL
CHELSEA HOTEL

MARTHA WASHINGTON HOTEL
THE BERESFORD
THE CHATSWORTH

222 West 250 St.
1 West 81st St.
346 W. 72d St.
1 West 81st St. ROYAL POINCIANA Palm Beach, Fla. THE BREAKERS Palm Beach, Fla. Hot Springs, Va. Atlantic City, N. J. HOMESTEAD HOTEL Marlborough-Blenheim

STEAMSHIP COMPANIES and FACTORIES CLYDE S. S. Co. HUDSON NAV. Co. MALLORY S. S. Co. Pier 36, N. R. Pier 32, N. R. Pier 37, N. R. 5 Broadway Pier 48, N. R. 17 Battery Pl. 227 East 44th St. WM. BAUMGARTEN & Co. 214 Avenue C. 543 West 23d St. Willimantic, Conn. York, Penna. West N. Y., N. J. 425 West 55th St. PENNSYLVANIA TENTILE Co. STANDARD MAIL ORDER CO. S. S. WHITE DENTAL MFG. Co. Princes Bay, S. I.

NEW YORK

W. & J. SLOANE, FIFTH AVE. & 47TH STREET, TELEPHONE: 7700 MURRAY HILL

"Invincible" VACUUM CLEANERS

SPECIFICATIONS FOR "Invincible" NUMBER FIFTEEN



"Invitatible" Number Fifteen
Price, with Standard Equipment, \$95

Exhauster:—"Junincible" two-stage turbo fan operating at 3500 r. p. m. giving a suction of 12½ under normal conditions. Passes from 20 to 75 feet of air per minute according to conditions.

Motor:—One-fourth horse-power Westinghouse AC or DC 110 or 220 volt to suit current conditions. Motor shaft is vertical, and is provided with well oiled sleeve bearings. Starts on 10 ampere fuse. Alternating current machines are furnished for 60 cycles only.

Dust Bag: Regular "Invitrible" cloth sack, easily removable by simply lifting from the dust collector.

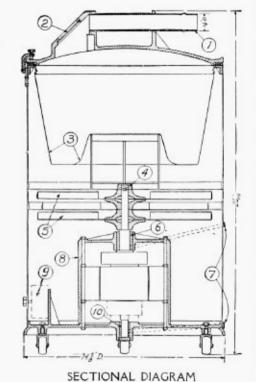
Equipment:—25 ft. of flexible cord with Edison attachment plug, 12 ft. 1¹/₄" canvas covered suction hose, 1-1¹/₄" bent floor rod with swivel, 1-10" carpet renovator, 1-10" bare floor attachment, 1-3" upholstery and drapery tool, and I thorough renovating carpet tool.

Weight: -43 pounds.

The "Intritrible" Fifteen is a favorite for household work. It has a sheet metal casing, alluminum frame, cover and handles, assuring light weight; is easily moved about, and has a powerful motor and exhauster of sufficient capacity to insure thorough cleaning.

The only wearing parts are the two bearings which run in an oil bath.

This machine has more power than any other machine of like size and price. Its efficiency and economy have been thoroughly demonstrated in many homes.



NAME OF PARTS

6 — Upper-bearing 7 — Oil-holes 8 — Motor-frame 9 — Motor-switch

10-Lower-bearing

Hose connection

2—Observation-glass 3—Dust-bag 4—Left hand fan-nut

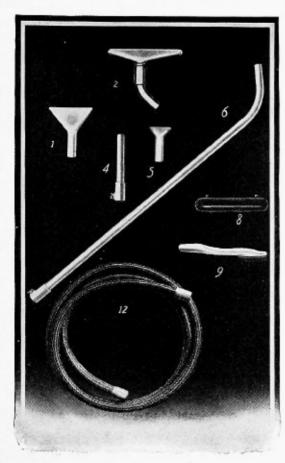
W. & J. SLOANE, FIFTH AVE. & 47th STREET, NEW YORK

PRICE BULLETIN OF ACCESSORY EQUIPMENT FOR

"Invincible"

VACUUM-CLEANERS

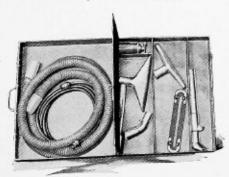
WITH SUGGESTIONS RELATIVE TO INSPECTION AND REPAIRS



ALUMINUM RODS Cat. No. PriceFigure 6 Bent Floor Rod, 11/4"x52"...... 120/5 \$2.50 Same, but bushed for 11/2" hose...... 120/6 2.90 Bent Floor Rod, 11/2"x52" (like figure 6) 120/12 4.25Straight Wall Rod, 11/4"x58"........... 120/9 2.50 Same, but bushed for $1\frac{1}{2}$ hose...... 120/10 Straight Wall Rod, $1\frac{1}{2}$ "x58".......... 120/13 2.90 4.25Bushing for connecting $1\frac{1}{4}$ " rods..... 157 Bushing for connecting $1\frac{1}{2}$ " rods..... 241 .65 .75 Figure 4 1.50 Same, but bushed for 1½" hose...... 120/3 1.90 HOSE AND HOSE ACCESSORIES Hose, 10 ft. length, for Baby Model Suction Sweeper 2.00 Hose, $1\frac{1}{4}$ or $1\frac{1}{2}$, light weight, per ft....... Hose, $1\frac{1}{4}$ or $1\frac{1}{2}$ (tike figure 12) medium or Figure 12 heavy weight, per ft..... .50 Stock lengths: 12 ft., 15 ft., 25 ft. no. 30045



Equipment Carrying Case Ready for Carrying



Equipment Carrying Case Showing Inside Arrangement

		RENOVATORS AND ATTACHMENTS	
		Cat. No.	Price
Figure	2	10" Carpet Renovator, 1¼" swivel type,	
		fits No. 166 170	\$2.00
		Same, but for 11/2" swivel, fits No. 196 220	2.00
		10" Carpet Renovator, 11/4" narrow slot,	
		fits No. 166 236	2.00
		Same, but for 11/2" swivel, fits No. 196 539	2.00
Figure	2	12" Carpet Renovator, 11/4" swivel type,	
		fits No. 166 165	2.75
		Same, but for $1\frac{1}{2}$ swivel, fits No. 196 195	2.75
		As above, but east iron, fits No. 196 265	3.00
Figure	8	10" Bare Floor Felt Attachment, fits	
		Nos. 170 and 220 110/8	2.25
		Same, but without clamps and screws	1.55
Figure	8	12" Bare Floor Felt Attachment, fits	
		Nos. 165 and 195 112/5	2.75
		Same, but without clamps and screws	2.05
		16" Bare Floor Renovator, 1½" swivel	
		type, complete	7.00
		16" Replaceable Felt Face for the above 209	3.00
Figure	2		1.50
		Swivel Joint, 1½" (springless) 196-A	2.00
		Hose Swivel, $1\frac{1}{2}$ hose, fits $1\frac{1}{4}$ No.	
		120/5 Rod	3.50
		Hose Swivel, 11/2" hose, fits 11/2" No.	
		120/12 Rod 115/5	3.50
		Hose Swivels, either the above, if pro-	
		vided with cut-off, additional	1.50

Renovators and Attachments, continued.	Cat. No.	Price
Figure 5 3" Upholstery and Drapery Tool, fits 9" hand rod	114	1.00
Same, but one piece, for 11/4" hose		1.35
As above, but bushed for 1½" hose		1.75
Figure 5 5" Upholstery and Drapery Tool, fits 9" hand rod		1.50
Same, but one piece, for 11/4" hose		1.85
As above, but bushed for 1½" hose	169-242	2.25
Figure 1 73/4 Deep Rug Tool, 11/4"	614	2.00
Same, but having wide cleaning face	117	2.75
7¾" Deep Rug Tool, 1½"	214	2.00
9" Blower Tool, fits either 11/4" or 11/2" hose		.75
18" Blower Tool, fits either 11/4" or 11/2" hose		1.25
Corner and Crevice Tool 11/4"		2.25
Same, bushed for 1½" hose		2.65
Pillow Tool, 11/4"	75-76	3.50
BRISTLE BRUSHES		
Figure 8 10" Bristle Attachment, fits Nos. 170 and 220	110/7	*2.25
10" Replaceable Bristle Face for the above		*1.50
Figure 8 12" Bristle Attachment, fits Nos. 165 and 195	112/4	*2.50
12" Replaceable Bristle Face for the above		*1.75
16" Bristle Renovator, 11/2" swivel type complete	114/7	*6.50
16" Replaceable Bristle Face for the above		*2.50
Furniture Brush, 2"x6½" face, 1¼"	114/5	*2.50
Same, but for 1½" hose		*2.50
Replaceable Bristle for the above		*1.10
Figure 9 Book Brush, flat, oval opening, 11/4"		*2.75
Same, but for 1½" hose		*2.75
Replaceable Bristle for the above		*1.00
Clothes Brush, 11/4", 21/2"x4" oval face		2.75
Replaceable Bristle for the above	288	1.60
Stucco Brush, 11/4", circular face, 4" diameter	110/10	*5.50
Same, but for 1½" hose	110/11	*5.50
Replacement Bristle for the above, long hair *For Stiff Bristles, add	110	*1.25
2.07 207 207 207 207 207 207 207 207 207 2	* * * * * * * * * * * * * * * * * * * *	25
SPECIAL TOOLS		
Additional to the above we can furnish on special order, tools and attachments destive purposes, among which are Library Brushes, Curry-combs, Horse Brushes, etc.	igned for distin	e-
OIL AND LUBRICANTS		
Machine Oil in half-pint spout cans, each		15
Machine Oil in half-pint spout cans, by mail, each		25
Machine Oil in one-gallon cans, gal Extra charge for boxing if sent by express.		90
ACCESSORIES		
Equipment Carrying Case, 17"x21"x7" (see illustration)		\$15 Listers
Carriage for 2-Stage Junior, 16" wheels (see illustration)		. 7.00
Canvas Cover for No. 15 or Junior Models		. 9.50
Canvas Cover for Truck Model Cleaners		. 4.00
		. 6.50

REPLACEMENT PARTS

Carbon Motor Brushes		Price
For Baby Model, 1/10 h.p. Peerless Motor, per pair		
Springs for the above, per pair.		.10
For No. 15 Model		.10
2-Stage Junior \\ \frac{1}{4} h.p. Westinghouse Motor, per pair		.36
For 3-Stage Junior or Junior-Truck, 1/3 h.p. Westinghouse Motor, per pair		.60
Springs for the above, per pair		.20
For Commercial Model \ \frac{1}{2} \ h.p. General Electric Motor, per pair		.80
For Truck Model, 1 h.p., 110-volt Westinghouse Motor, per pair		.60
For Truck Model, 1 h.p., 220-volt Westinghouse Motor, per pair		
For Truck Model, 1 h.p., 110-volt General Electric Motor, per set (4)		
Parts for all models can be obtained. Prices on application.		
INLET VALVES AND FITTINGS		
x xuon x j peoj perionea (minarane) ere use		Price
Non-lock, one piece, 2" male thread	103/2	2.00
Lock, one piece, 2" male thread	103/1	2.50
Non-lock, two piece, combination 2" male and 1½" female thread		2.00
Non-lock, two piece, 2" female thread	100/2	2.00
Fittings		
2" Extension Piece, 15/8" extension	261	.25
2" Coupling, female, 1½" long		.25
2"x1½" Reducing Coupling, 1½" long	222	.25
Exposed Types, polished aluminum, except 105/1		
Non-lock, 2"female thread	101/1	2.00
Non-lock, 2" male thread	101/2	2.00
Non-lock, 1½" female thread	101/5	2.00
Lock, 11/2" male thread, polished bronze	105/1	2.50
Note: For bronze or brass finishes other than standard, add per valve		.50
Prices subject to change without notice		

Prices subject to change without notice.

INSPECTION

Many users of "Invitrible" Vacuum Cleaners, and especially Theatres, Stores, Banks and Public Institutions, find our Inspection Service invaluable to them. By inspecting machines periodically, carelessness and misuse may be eliminated and trouble is anticipated and prevented.

By having machine in first class operating condition at all times it can be relied upon to give maximum efficiency. This in itself will save many times the cost of the Service, to say nothing of the time that operators might lose should machine become troublesome, or the heavy repair expense occasioned by lack of timely attention.

REPAIRING

We are completely equipped for Repairing "Invitrible" Vacuum Cleaners. These are our specialty. A postal, letter or telephone call will bring our mechanic promptly.

Usually repairs can be effected on customer's premises. For extensive repairs our shop is fully equipped and by the use of our Trunk System the safe and easy transportation of No. 15 and Junior Model Machines is facilitated.

Our familiarity with the construction of "Invitrible" Cleaners and our ready stock of parts are essential to proper Repairing. As it is to our interest to maintain the excellent reputation of "Invitrible" Vacuum Cleaners we naturally aim to keep Repair expense low.

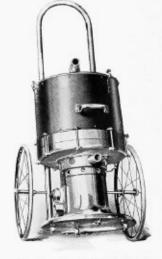
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NEW YORK

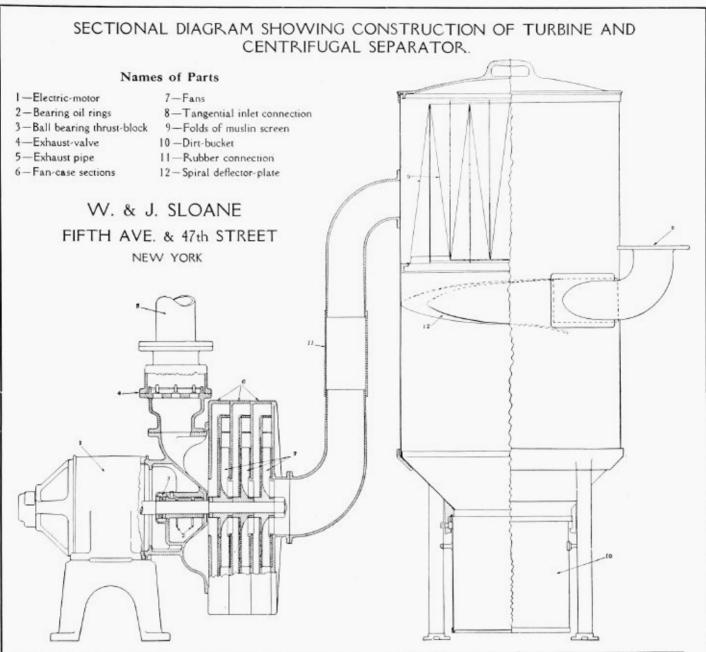
TELEPHONE: 7700 MURRAY HILL

WASHINGTON, D. C., 1412-1414 H. STREET, N. W.



Carriage for 2-Stage Junior Showing Application

"Invincible" VACUUM CLEANERS

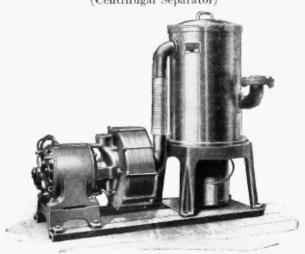


Plant No.					arana on propins			Normal Rated Capacity	
	Number of Sweepers in Simultaneous use		Maximum Floor Space	Height for Clearance	SIZES OF PIPING			C. Li. E. A.	Vacuum(inches
					Risers	Laterals	Exhaust	Cubic Feet Air Per Minute	water) at mach- ine for rated air Capacity
405	. 1	1/2	18" × 26"	26"	★ 2" - 2½	2 1/2"	2 1/2"	50	18"
410	1	1	18" × 43"	26"	★2" - 2½	2"-21/2"	2 1/2"	60	26"
415	1	1½ DC 1½ AC	18" × 44"	26"	★2 " - 2½	2 1/2 "	2 1/2 "	60	35"
705	1	1/2	23" x 37"	43 1/2"	2" - 21/2	2 1/2 "	21/2"	50	18"
710	1	1	23" × 44"	43 1/2"	2" - 21/2	2 1/2"	2 1/2"	60	26"
715	1	1½ DC 1½ AC	23" x 46½"	43 1/4"	2" - 21/2	2 1/2"	2 1/2"	60	35"
802	2	2	60" x 30"	85"	2" - 21/2	21/2"-3"	3''	160	32"-34"
803	2	3	65" x 30"	85''	2" - 21/2	21/2"-3"	3"	160	47"-51"
804	3	4	65" x 30"	85"	2" - 21/2	2 1/2 "-3"	3''	240	42"-45"
905	4	5	85" x 40"	100"	2"-21/2"-3"	21/2"-5"	5"	260	50"-52"
907	4	71/2	100" x 40"	100"	2"-21/2"-3"	2 1/2 "-5"	5''	320	64"-66"
910	5 or 6	10	100" x 40"	100"	2"-21/2"-3"	2½"-5"	5''	460	64"-66"
911	4	10	100" x 40"	100"	2"-21/2"-3"	21/2"-5"	5''	350	80''-84''
915	6	15	100" x 40"	100"	2"-21/2"-3"	2 1/2"-5"	5"	480	7 0"-75"

"Inninrible" VACUUM CLEANERS

SINGLE-SWEEPER STATIONARY PLANTS

(Centrifugal Separator)



Typical single sweeper stationary plant with centrifugal separator. (Plants Nos. 705, 710 and 715)

In capacity and efficiency these plants are identical with standard single sweeper plants. Nos. 405, 410 and 415. Motor and separator are mounted upon a channel iron base, making a self-contained unit which can be easily placed in position without the necessity of aligning separate parts. Exhauster and separator tank are connected by means of a rubber coupling.

Dust Collector: "Invitable" centrifugal separator, insuring perfect separation. Dirt-laden air enters tank at a tangent, the heavier particles being thrown to the bottom of the tank where they are caught in the dust bucket. Over 95% of the dirt is taken care of in this manner; the remainder, consisting of very fine dust particles, is caught upon a screen placed in the upper part of the tank. Screen is self-cleaning. Tank: heavy sheet steel shell; top and stand, cast iron. Dust bucket of heavy sheet steel with reinforced bottom, suspended from ears on tank shell and is locked in position, air tight, by the simple operation of pressing down the handle.

Equipment: None included in the price, but the following is suggested as sufficient for all ordinary needs, viz: 25 ft. of 1½" canvas covered wire reinforced suction hose; 1-12" carpet renovator; 1-10" narrow slot swivel type carpet renovator for thorough cleaning; 1-1¼" curved handle fitted for 1½" hose, with tool swivel; 1-3" upholstery renovator; 1-12" brush for floor or walls; and one general utility brush.

SPECIFICATIONS SINGLE-SWEEPER STATIONARY PLANTS WITH CENTRIFUGAL SEPARATOR

No. 705

Exhauster:—"Invincible" twostage fan (aluminum) mounted directly upon motor shaft. Fan cases (soft gray cast iron) bolted to motor

Exhaus stage far rectly u (soft gray cast iron) bolted to motor

Motor:—One-half H. P., 3500 r. p. m. Westinghouse or General Electric. Can be furnished for D. C. 110 or 220 volts, and A. C. 110 or 220 volts, 60 cy., single phase. Two ring-oiled bearings (only points of friction). Snap switch on motor frame.

*Capacity:—Will maintain a vacuum of 18" at machine while displacing 50 cu. ft. atmospheric air per minute. Maximum suction, 26"; maximum displacement, 110 cu. ft. per minute.

Piping:—Suction, 2" or 2½" (tank connection for riser tapped for 2½" pipe); exhaust, 2½".

Weight:-Crated, 500 pounds.

Dimensions (overall) — Width, 23"; length, 37"; height, 43½".

No. 710

Exhauster:—"Invincible" threestage fan (aluminum) mounted direct'y upon motor shaft. Fan cases (soft gray cast iron) bolted to motor frame.

Motor:—1 H. P., 3500 r. p. m,. General Electric or Century Electric. Can be furnishedfor D. C. 110 or 220 volts, and A. C. 110 or 220 volts, 60 cycles, single phase. Two ring-oiled bearings (only points of friction). Fused knife switch, for wall mounting.

*Capacity:—Will maintain a vacuum of 26" at machine while displacing 60 cu. ft. atmospheric air per minute. Maximum suction, 33"; maximum displacement, 115 cu. ft. per minute.

Piping:—Suction, 2" or 2½", (tank connection for riser tapped for 2½" pipe); exhaust, 2½".

Weight:—Crated, 600 pounds.

Dimensions (overall) — Width, 23"; length, 44"; height, 43½".

*These measurements made by the orifice method; water gauge.

No. 715

Exhauster:—"Invincible" fourstage fan (aluminum) mounted directly upon motor shaft. Fan cases (soft gray cast iron) bolted to motor frame.

Motor:—1½ H. P., A. C; 1¼ H. P., D. C., 3500 r. p. m. Westinghouse, General Electric or Century. Can be furnished for D. C. 110 or 220 volts, and A. C. 110 or 220 volts, 60 cycles, single, two and three phase. Two ring-oiled bearings, (only points of friction). Fused knife switch, for wall mounting. Starting rheostat also for D. C.

*Capacity:—Will maintain a vacuum of 35" at machine while displacing 60 cu. ft. atmospheric air per minute. Maximum suction, 40"; maximum displacement, 130 cu. ft. per minute.

Piping:—Suction, 2" or 2½", (tank connection for riser tapped for 2½" pipe); exhaust, 2½".

Weight:—Crated, 650 pounds.

Dimensions (overall) — Width,
23"; length, 46½"; height, 43½".

W. & J. SLOANE, FIFTH AVE. & 47th STREET, NEW YORK

"Innincible" VACUUM CLEANERS

"Invincible" STATIONARY PLANTS



Typical Five and Six Sweeper Stationary Plants (Nos. 910 and 915)

A good vacuum cleaning plant is not an expense, but a wise investment. The best pays the biggest dividends. The "Invincible" is built to give a lifetime of service. Correct design, the best materials and good workmanship insure durability and economy in operating cost. The manufacturers of the "Invincible" were the first to employ the centrifugal fan principle for vacuum cleaning and they only have perfected its application to this service.

Fans: The fans are of aluminum and are mounted directly upon one end of the motor shaft. Only two ring oiled bearings are used to support the moving element, which consists of fans and revolving part of motor. This reduces wearing parts to a minimum and gives the maximum of simplicity and durability.

Dust Collector: "Invincible" combined centrifugal and screen type. Consists of heavy sheet steel shell, welded, with cast iron top and base. Tank mounted on three legs so that it can be made to stand level without any trouble.

Separator tank and exhauster are shipped as separate units; connected by rubber coupling so they can easily be aligned and set.

SPECIFICATIONS "Juniucible" FIVE AND SIX SWEEPER STATIONARY PLANTS

No. 910

Exhauster: "Invincible" three-stage turbo fan (aluminum). Fan cases (soft gray iron castings) bolted to motor frame.

Motor: 10 H. P., 3500 r.p.m. General Electric. Can be furnished for D. C. 110 or 220 v. and A. C. 110 or 220 v. 60 cy. two or three phase. Two ring oiled sleeve bearings and ball thrust collar (only points of friction). Fused knife switch for wall mounting, with hand starter for A. C. or rheostat for D. C.

*Capacity: Light duty five or six sweeper. Will maintain at machine a vacuum of 64" to 66" while displacing 460 cu. ft. atmospheric air per minute.

Equipment: Extra.

Dimensions: Maximum floor space 100" x40". Height for clearance 100".

Weight: Crated 2500 lbs.

2½" to 5"; exhaust 5".

No. 915

Exhauster: "Invincible" three-stage turbo fan (aluminum). Fan cases (soft gray iron castings) bolted to motor frame.

Motor: 15 H. P., 3500 r.p.m. General Electric. Can be furnished for D. C. 110 or 220 v. and A. C. 110 or 220 v. 60 cy. two or three phase. Two ring oiled sleeve bearings and ball thrust collar (only points of friction). Fused knife switch for wall mounting, with hand starter for A. C. or rheostat for D. C.

*Capacity: Heavy duty six sweeper. Will maintain a vacuum of 70" to 75" while displacing 480 cu. ft. atmospheric air per minute.

Equipment: Extra.

Dimensions: Maximum floor space 100" x40". Height for clearance 100".

Weight: Crated 3600 lbs.

Piping: Risers 2", 21/2" and 3"; laterals Piping: Risers 2", 21/2" and 3"; laterals 2½" to 5"; exhaust 5".

*These measurements made by the orifice method; water gauge.

W. & J. SLOANE, FIFTH AVE. & 47th STREET. NEW YORK

"Invincible" VACUUM CLEANERS

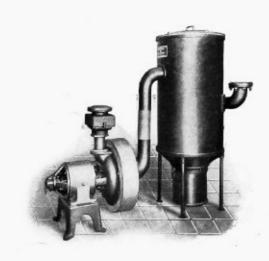
"Invincible" STATIONARY PLANTS

We build a machine to fit exactly the needs of any building. Our stationary plants all work on the same principle—a vacuum or suction created by centrifugal fans. The difference is simply one of power and capacity, and the increased size and weight which more power necessitates.

Our engineers will co-operate with anyone contemplating the purchase of a vacuum cleaning machine, giving advice based on experience in equipping all kinds of buildings.

Fans: The fans are of aluminum and are mounted directly upon one end of the motor shaft. Only two ring oiled bearings are used to support the moving element which consists of fans and revolving part of motor. This reduces wearing parts to a minimum and gives the maximum of simplicity and durability.

Dust Collector: "Invincible" combined centrifugal and screen type. Consists of heavy sheet steel shell, welded, with cast iron top and base. Tank mounted on three legs so that it can be made to stand level without any trouble.



Typical Four Sweeper Plant. (Nos. 905, 907 and 911)

Separator tank and exhauster are shipped as separate units; connected by rubber coupling so they can easily be aligned and set.

SPECIFICATIONS "Invincible" FOUR-SWEEPER STATIONARY PLANTS

No. 905

Exhauster:—"Invincible" twostage turbo fan (aluminum). Fan cases (soft gray iron castings) bolted to motor frame.

Motor:—5 H. P., 3500 rpm. General Electric or Century Electric. Can be furnished for D. C. 110 or 220 v. and A. C. 110 or 220 v., 60 cy., single, two or three phase. Two ring oiled sleeve bearings and ball thrust collar (only points of friction). Fused knife switch for wall mounting; starting rheostat also for D. C.

*Capacity:— Light duty four sweeper. Will maintain a vacuum at machine of 50"-52" while displacing 260 cu. ft. atmospheric air per minute.

Equipment:-Extra.

Dimensions:— Maximum floor space 85"x40". Height for clearance 100".

Weight:-Crated, 1800 lbs.

Piping:—Risers 2", 2½" and 3"; laterals 2½" to 5"; exhaust 5".

No. 907

Exhauster:—"Invincible" threestage turbo fan (aluminum). Fan cases (soft gray iron castings) bolted to motor frame.

Motor:—7½ H. P., 3500 rpm. General Electric or Century Electric. Can be furnished for D. C. 110 or 220 v. and A. C. 110 or 220 v., 60 cy., single, two or three phase. Two ring oiled sleeve bearings and ball thrust collar (only points of friction). Fused knife switch for wall mounting, with hand starter for A. C. or rheostat for D. C.

*Capacity:—Medium duty four sweeper. Will maintain a vacuum at machine of 64"-66" whie disdisplacing 320 cu. ft. atmospheric air per minute.

Equipment:-Extra.

Dimensions:— Maximum floor space 100"x40". Height for clearance, 100".

Weight:-Crated, 2200 lbs.

Piping:—Risers 2", 21/4" and 3"; laterals, 21/4" to 5"; exhaust 5".

No. 911

Exhauster:—"Invincible" threestage turbo fan (aluminum). Fan cases (soft gray iron castings) bolted to motor frame.

Motor:—10 H. P., 3500 rpm. General Electric. Can be furnished for D. C. 110 or 220 v. and A C. 110 or 220 v. 60 cy., two or three phase. Two ring oiled sleeve bearings and ball thrust collar (only point of friction). Fused knife switch for wall mounting, with hand starter for A. C. or rheostat for D. C.

*Capacity:— Heavy duty four sweeper. Will maintain a vacuum at machine of 80"-84" while displacing 350 cu. ft. atmospheric air per minute.

Equipment:—Extra.

Dimensions:— Maximum floor space 100"x40". Height for clearance, 100".

Weight:-Crated, 2500 lbs.

Piping:—Risers 2", 2½" and 3"; laterals, 2½" to 5"; exhaust, 5".

*These measurements made by orifice method; water gauge.

W. & J. SLOANE, FIFTH AVE. & 47th STREET, NEW YORK

"Innincible" VACUUM CLEANERS

SPECIFICATIONS—BABY "Juniorible"

Exhauster: Consists of single, cast aluminum fan carefully balanced and attached directly to the motor shaft; produces a suction of from 8½" to 9" and will handle a maximum quantity of 50 cu. ft. atmospheric air per minute.

Motor: 1/12 H. P., commutator type, mounted vertically which will operate on either alternating or direct current, provided frequency of A. C. is not higher than 60 cycles. For 110 volt circuits only.

Dust Bag: Exposed type of specially woven commercial satin which will not leak dust. Suspended from handle; spring clip at large end of bag, this clip having hook which engages in eyelet on handle; small end of bag fastened to exhauster by notched slip ring. Can be taken off and emptied in a very few seconds.



Baby "Junincible"
Price, with hose and coupling....\$32.50

General: Machine is mounted upon two rubber-tired, ball-bearing wheels and runs very easily. Handle yoke swings up and down on two pins set in motor frame so that a long stroke can be taken without tilting the cleaning nozzle and handle automatically adjusts itself to the height of the operator. Handle is also equipped with a swivel elbow so that by a slight turn



Cleaning tool for carpets—used on machine or floor rod—\$2



Brush attachment for walls, floors, etc.-\$2.25



Blowing tool for radiators and inaccessible places also used to aerate pillows, mattresses, etc.—\$.75



Furniture brush for books, furniture, etc.-\$2.75



Felt attachment for hardwood floors, etc.-\$2.25



Upholstery tool for cleaning upholstery, draperies, etc.—\$1.35

"Invincible" Conts
See descriptions and prices above.

of the wrist the cleaning nozzle can be swung sharply either to the left or right. This is a distinct advantage in cleaning places which would ordinarily be inaccessible. Handle can be detached and used as a cleaning rod in conjunction with the hose and cleaning nozzle, which is also detachable, and fits swivel joint on straight end of handle. When it is desired to clean draperies, upholstery, etc., requiring the use of a hand renovator or brush, the cleaning nozzle is removed and in its place there is put the end of hose having the coupling attached to it. The hand renovator or brush it is desired to use is then placed in the other end of the hose. Another advantage of the Baby "Invincible" is that it can be used also for blowing purposes. This is very convenient for blowing dirt out of radiators and other places hard to reach. The dust bag is taken off and the hose coupling inserted in the exhaust opening to which the dust bag is ordinarily attached. One end of the hose is placed over the coupling and in the other end there is inserted the tool which is to be used.

Equipment: The price of \$32.50 includes only 25 ft. of electric cord with attachment plugs, 10 ft. of 1½" covered suction hose and one hose coupling. Most of our standard 1½" tools can be used with this machine. Several of these, especially suitable for use with this machine, and the prices thereof are set forth elsewhere on this page.

Weight: Net, 10 lbs.; packed, 40 lbs.

The Baby "Invincible" is the final word in the small, convenient, low-priced cleaner. Ideal for small homes. It is light, compact, but skilfully designed and well built. It is the result of this company's many years experience in the manufacture of vacuum cleaners and is truly an "Invincible"—the world's standard.

W. & J. SLOANE, FIFTH AVE. & 47th STREET, NEW YORK

SPECIFICATIONS FOR THE "Juniurible" HANDY



"Inuincible" Handy
The ideal machine for small homes.
Price, without equipment, \$35.00.

Exhauster:—Consists of a single turbine fan, producing a suction of $8\frac{1}{2}$ " to 9", and handling a maximum of 50 cubic feet of air per minute.

Motor:—One-twelfth horsepower Fort Wayne commutator type motor operating on either alternating current or direct current. The fan is a single piece aluminum casting and is mounted directly on the motor shaft.

Dust Bag:—Exposed type dust bag made of toga satin, attached to handle by spring clamp and to the exhaust opening of the machine by a coil spring attachment. Machine weighs but ten pounds and is easily portable. It is equipped with 25 ft. of flexible cord, having a Cutler-Hammer feed-through switch and a General Electric swivel attachment plug.

Tools:—No tools are included in the price of \$35.00, but when desired there will be furnished for \$8.00 extra, the following equipment:

One hose attachment, 1–8–ft. section $1\frac{1}{4}$ " covered suction hose, 1–3" drapery and upholstery tool and 1 furniture or library brush.

The "Juniurible" Handy is the final word in the small, convenient, low-priced vacuum cleaner.

While small and compact it is an "Invitrible" Cleaner in every sense of the word. It is as light as efficiency and durability permit.

It is the result of many years' experience by this company, the first to manufacture a really efficient, portable cleaner.

Our turbine fan gives greater displacement and higher vacuum than any other cleaning machine of the same weight and power.

The flexible swivel handle makes it easy to reach all corners and to clean around furniture.

The "Invincible" Handy is by far the best of all machines of like size and price.

"Junincible" VACUUM CLEANERS

SPECIFICATIONS FOR "Junincible" HEAVY DUTY TRUCKS



Typical "Invitatible" Heavy Duty Truck (Nos. 405-T, 410-T and 415-T).

Our truck machines are designed to meet the great needs of factories, office and public buildings, hotels, churches, theatres, etc., where an installed plant is not desired or practicable and where the cleaning work is so great that more power than any smaller portable cleaner can furnish is demanded for the quickest and most economical service. The "Justitible," having the great advantage of the centrifugal fan principle, has more cleaning power for the weight of the machine than any other vacuum cleaner. Our truck machines fit perfectly the needs of many big buildings. They are simple, powerful, quiet-running and durable and are daily proving themselves big practical economies.

"Intitrible" truck machines are built in three sizes as noted below and in design and capacity are practically identical with standard single sweeper stationary plants No. 405, 410 and 415. The dust collector and motor are mounted upon a steel bar frame supported by four rubber tired wheels with a hinged tongue attached to the front axle by means of which the outfit can easily be pulled about. These trucks are especially suitable for office buildings and hotels, also department stores where elevator service is available for taking them from one floor to another.

These trucks are not only the best vacuum cleaners obtainable but because of the perfect separation of dust from the air, the air as it comes from the exhaust can be used for blowing purposes. This feature has proven a very attractive and valuable one to users of these trucks.

Dust Collector: Standard "Invitrible" dry separator tank with heavy duty dust receptacle, easily removable for emptying and cleaning. Shell of tank is heavy sheet steel; top, cast aluminum and base cast iron.

Equipment: The following standard equipment is furnished with trucks Nos. 405-T, 410-T and 415-T:—50 ft. flexible electric cable with attachment plug; 25 ft. of 1½" wire reinforced canvas covered suction hose; 1-12" carpet renovator; 1-10" narrow slot swivel type carpet renovator for thorough cleaning: 1½" curved handle with hose swivel and tool swivel; 1-12" brush for floor or walls; one general utility brush; 1-3" renovator for draperies and upholstery; and 1 blower connection for exhaust.

No. 405-T

Exhauster: - "Innincible" twostage fan (aluminum) mounted directly upon motor shaft. Fan cases (cast aluminum) bolted to motor frame

Motor: — 1/2 h. p., 3500 r. p. m. Westinghouse or General Electric. Can be furnished for D. C. 110 or 220 volts and A. C. 110 or 220 volts, 60 cycles, single phase. Two ring-oiled bearings (only points of friction). Snap switch on motor frame.

"Capacity:—Will maintain a vacuum of 18" at machine while displacing 50 cu. ft, atmospheric air per minute. Maximum suction, 26"; maximum displacement, 110 cu. ft. per minute.

Dimensions:—(Overall) Width 18"; length 38"; height 30".

Weight:-Net, 200 pounds; crated, 290 pounds.

Price:—With standard equipment, \$225.

No. 410-T

Exhauster:—"Invincible" threestage fan (aluminum) mounted directly upon motor shaft. Fan cases (cast aluminum) bolted to motor frame.

Motor:—I h. p., 3500 r, p. m. General Electric or Century Electric. Can be furnished for D. C. 110 or 220 volts and A. C. 110 or 220 volts, 60 cycles. single phase. Two ringoiled bearings (only points of friction). Snap switch on motor frame.

*Capacity:—Will maintain a vacuum of 26" at machine while displacing 60 cu. ft. atmospheric air per minute. Maximum suction, 33"; maximum displacement, 115 cu. ft. per minute.

Dimensions: — (Overall) Width 18"; length 47"; height 30".

Weight:—Net 290 pounds; crated, 400 pounds.

Price: - With standard equipment, \$300.

No. 415-T

Exhauster: - "Juniurible" fourstage fan (aluminum) mounted directly upon motor shaft. Fan cases (cast aluminum) bolted to motor frame.

Motor:—1½ h. p., A. C.; 1¼ h. p. D. C., 3500 r. p. m. Westinghouse, General Electric or Century. Can be furnished for D. C. 110 or 220 volts and A. C. 110 or 220 volts, 60 cycles, single phase. Two ring-oiled bearings (only points of friction). Snap switch on motor frame.

Starting rheostat also with D. C.

*Capacity:—Will maintain a vacuum of 35" at machine while displacing 60 cu. ft. of atmospheric air per minute. Maximum suction, 40"; maximum displacement, 130 cu. ft. per minute.

Dimensions:- (Overall)-Width, 18"; length, 50"; height, 30".

Weight:—Net, 315 pounds; crated, 425 pounds.

Price:—With standard equipment, \$350.

*These measurements made by orifice method: water gauge.

W. & J. SLOANE, FIFTH AVE. & 47th STREET, NEW YORK



